



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T- 4358

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-05-12-01 Date: 17-05-2017

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Ward Development work in Ward No.14, in Bagalagunte.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.

Customer's Reference : BBMP/EE/DD/WO/71/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-05-2017

Sample ID No : 2017-05-12-01/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 12-05-2017

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	90	90	9	91	90-100	90-100	90-100	95-100
3	2.36 mm	130	220	22	78	60-95	75-100	85-100	95-100
4	1.18 mm	104	324	32.4	67.6	30-70	55-90	75-100	90-100
5	600 micron	140	464	46.4	53.6	15-34	35-59	60-79	80-100
6	300 micron	240	704	70.4	29.6	5-20	8-30	12-40	15-50
7	150 micron	220	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100	0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Lab ID : CP-2017-05-12-01

Date: 17-05-2017

Sample ID No : 2017-05-12-01/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.89	—
2	Specific Gravity	2.57	—
3	Material finer than 75 micron	5.45	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

ಸಾರ್ವಜನಿಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಪಿ.ದಾಸರವಳ್ಳಿ, ಉಪ-ನಿರ್ದೇಶಕ
ಬಾಗಲಕೋಟೆ, ಬಿಬಿಎಂಪಿ
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KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3



Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-05-24-01 Date: 30-05-2017

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Ward Development work in Ward No.14, in Bagalagunte.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.

Customer's Reference : BBMP/EE/DD/WO/71/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-05-2017

Sample ID No : 2017-05-24-01-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	22/05/2017	29/05/2017	150.11 X 150.32 X 150.54	22565	8.138	433.2	19.2	19.1
2	Drain Concrete	M20	22/05/2017	29/05/2017	150.22 X 150.76 X 150.11	22647	8.230	437.1	19.3	
3	Drain Concrete	M20	22/05/2017	29/05/2017	150.13 X 150.21 X 150.44	22551	8.330	426.2	18.9	

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Harsitha



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R KARTHIK RECHAN
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Quality Manager

[Signature]
ಪ್ರಾಧಿಕಾರಿತರಾದ ಅಧಿಕಾರಿಗಳು
ಪ್ರ. ದಾಖಲೆಗಳು ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-05-24-02 Date: 31-05-2017

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Ward Development work in Ward No.14, in Bagalagunte.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.

Customer's Reference : BBMP/EE/DD/WO/71/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-05-2017

Sample ID No : 2017-05-24-02-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	23/05/2017	30/05/2017	150.20 X 150.32 X 150.14	22578	8.276	410.9	18.2	18.5
2	Drain Concrete	M20	23/05/2017	30/05/2017	150.53 X 150.33 X 150.21	22629	8.288	418.6	18.5	
3	Drain Concrete	M20	23/05/2017	30/05/2017	150.11 X 150.53 X 150.22	22596	8.198	427.1	18.9	

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ಪಿ.ದಾಸರಾಜ್, ಉಪ-ವಿಭಾಗ
ಪಾಲಕರು, ಬಿಬಿಎಂಪಿ
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-05-12-01 Date: 19-05-2017

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Ward Development work in Ward No.14, in Bagalagunte.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.

Customer's Reference : BBMP/EE/DD/WO/71/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-05-2017

Sample ID No : 2017-05-12-01/01

Sample Type : Birla Super 53 grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 12-05-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.06	—
2	Fineness by Air permeability method (m ² /kg, Min)	276.8	225m ² /kg, Min
3	Density (gm/cc)	3.21	—
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes

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ಬಿ.ದಾಸರಾಜ್, ಬಿ.ಎಂ.ಪಿ.
ಬಿ.ಎಂ.ಪಿ. ಕಛೇರಿ



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Lab ID : CP-2017-05-12-01
Sample ID No : 2017-05-12-01/01

Date: 19-05-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
	28 Days	Test Report Date Due On 09-06-2017	Not less than 53 N/mm ²

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Prepared by
Harshitha

ಇದರಲ್ಲಿ ಉಪಯುಕ್ತವಾದ ಮಾಹಿತಿಗಳು ಒದಗಿಸಲಾಗಿದೆ. ಇದನ್ನು ಬಳಸಿಕೊಂಡು ಯಾವುದೇ ತಪ್ಪುಗಳನ್ನು ತಪ್ಪಿಸಲು ಸಾಧ್ಯವಾಗಿದೆ.



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 Address : Dasarahalli Sub Division, BBMP, Bangalore.
 Project Name : Ward Development work in Ward No.14, in Bagalagunte.
 Agency : Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
 Customer's Reference : BBMP/EE/DD/WO/71/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 12-05-2017
 Sample ID No : 2017-05-12-01/01
 Sample Type : Birla Super 53 grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
 Date of test : 12-05-2017

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	56.5N/mm ²	Not less than 53 N/mm ²

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